

Sheet  $\underline{1}$  of 3

	U.S. Department of Commerce Patent and Trademark Office							Attorney Docket No.		Serial No.	
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT							S-96,583		<u></u>	
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:								Thomas C. Terwilliger			20 E 2
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Sheet 2 of 3 Attorney Docket No. Serial No. Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office (Modified) 10/017,643 S-96,583 Applicant(s) INFORMATION DISCLOSURE STATEMENT BY APPLICANT Thomas C. Terwilliger Filing Date Group 1631 37 CFR 1.98(b) OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) van der Plas et al., "Ab Initio Phasing in Protein Crystallography," Proc of SPIE, (2000) AM 4123, pp. 249-260. Read, "Improved Fourier Coefficients for Maps Using Phases form Partial Structures with Errors," Acta Cryst. (1986), A42, pp. 140-149. Cowtan et al., "Improvement of Macromolecular Electron-Density Maps by the Simultaneous Application of Real and Reciprocal Space Constraints," Acta Cryst. (1993), D49, pp. 148-157. Terwilliger, "Maximum-likelihood Density Modification," Acta Cryst. (2000), D56, pp. Terwilliger, "Reciprocal-space Solvent Flattening," Acta Cryst. (1999), D55, pp. 1863-1871. Szoke, "Holographic Methods in X-ray Crystallography, II, Detailed Theory and Connection to Other Methods of Crystallography," Acta Cryst., (1993), A49, 853-866. Maalouf, "Holographic Methods in X-ray Crystallography, III. First Numerical Results," Acta Cryst., (1993), A49, 866-871. Beran, "Simulated Annealing for Phasing using Spatial Constraints," Acta Cryst., (1995), A51, 20-27. Szoke et al., "Holographic Methods in X-ray Crystallography, IV. A Fast Algorithm and its Application to Macromolecular Crystallography," Acta Cryst., (1995), A51, 691-708. Szoke et al., "Holographic Methods in X-ray Crystallography, V. Multiple Isomorphous Replacement, Multiple Anomalous Dispersion and Non-crystallographic Symmetry," Acta Cryst., (1997), A53, 291-313. Szoke, "Use of Statistical Information in X-ray Crystallography with Application to the Holographic Method," Acta Cryst., (1998), A54, 543-562. DATE CONSIDERED: EXAMINER 9-19-03 \*EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 3 of 3 Attorney Docket No. Form PTO-1449 U.S. Department of Commerce (Modified) Patent and Trademark Office S-96,583 Applicant(s) INFORMATION DISCLOSURE STATEMENT BY APPLICANT Thomas C. Terwilliger Filing Date Group 631 37 CFR 1.98(b) OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) Bi-Cheng Wang, "Resolution of Phase Ambiguity in Macromolecular Crystallography," AM Methods in Enzymology, Vol. 115, pp. 90-113, 1985. Shibin Xiang et al., "Entropy Maximization Constrained by Solvent Flatness: a New Method for Macromolecular Phase Extension and Map Improvement," International Union of Crystallography, D49, pp. 193-212, 1993. G. Bricogne, "Maximum Entropy and the Foundations of Direct Methods," International Union of Crystaliography, A40, pp. 410-445, 1984. G. Bricogne, "A Bayesian Statistical Theory of the Phase Problem. 1. A Multichannel Maximum-Entropy Formalism for Constructing Generalized Joint Probability Distribution of Structure Factors, A44, pp. 517-545, (1988). Thomas C. Terwilliger et al., "Automated MAD and MIR Structure Solution", International Union of Crystallography, D55, pp. 849-861, (1999). V. Yu. Lunin "Electron-Density Histograms and the Phase Problem," International Union of Crystallography, D49, pp. 90-99, (1993). Drenth, "Principles of Protein X-Ray Crystallography," Springer-Velag New York, (1994), pp. 1-19. **EXAMINER:** DATE CONSIDERED: 9-19-03 \*EXAMINER: Initial citation considered. Drawline through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.